## **REMARKS**

Claims 1-13 are pending and at issue in the present application.

The application has been amended in accordance with suggestions from the examiner.

The title of the invention has been amended to "Book Assembly Process and Apparatus For Variable Imaging System" to address issues raised by the examiner.

Applicants traverse the rejection of claims 1-13 as anticipated by or obvious over de Hues et al.

Claim 1, and claims 2-13 directly or indirectly dependent thereon, recite a method of assembling a book including the steps of specifying pagination information including an indication of whether a page is to be selectively included in the book, determining whether the page is to be assembled into the book based on the pagination information and generating page description language instructions for the production of the book in accordance with the pagination information.

De Heus et al. does not disclose or suggest a method of assembling a book including the steps of specifying pagination information including an indication of whether a page is to be selectively included in the book and determining whether the page is to be assembled into the book based on the pagination information, as recited by claims 1-13.

In fact, de Heus et al. discloses a pagination process that generates a single book layout for printing multiple copies of an identical version of a book. More specifically, the de Heus pagination process accepts a plurality of data entries as inputs and creates individual page layouts for a single version of a book. Such data entries may comprise, for example, advertisements and listings for a telephone book. The de Heus process minimizes the waste of available printing

PATENT 27600/M239A

space by positioning the plurality of data entries in accordance with a set of predefined

pagination parameters.

Because the prior art does not disclose each of the steps recited by the claims at issue, it

follows that such claims are not anticipated thereby.

Further, because de Heus et al. not disclose or suggest that it would be desirable or even

possible to assemble a book by specifying pagination information including an indication of

whether a page is to be selectively included in the book and determining whether the page is to

be assembled into the book based on the pagination information as specified by the claims at

issue, it is evident that the claims are not obvious thereover. The prior art must disclose at least a

suggestion of an incentive for the claimed combination of elements in order for a prima facie

case of obviousness to be established. See In re Sernaker, 217 U.S.P.Q. 1 (Fed. Cir. 1983) and

Ex Parte Clapp, 227 U.S.P.Q. 972, 973 (Bd. Pat. App.1985). Accordingly, rejections of the

claims at issue should be withdrawn.

Attached hereto as pages 8-11 is a version with markings to show changes made to the

title and disclosure by the current amendment.

An early and favorable action on the merits is respectfully requested.

Respectfully submitted,

McCracken and Frank

Attorneys At Law

November 4, 2002

J. William Frank, III Reg. No. 25,626

200 West Adams Street **Suite 2150** 

Chicago, Illinois 60606

(312) 263-4700

Customer No: 29471

7

## **VERSION WITH MARKINGS TO SHOW CHANGES MADE**

## TITLE:

The title has been amended as follows:

[Imposition] Book Assembly Process And Apparatus For Variable Imaging System

## IN THE SPECIFICATION:

The paragraph beginning on page 14, line 5 has been amended as follows:

The master and variable page files and the press command file are converted by a collator and raster image processor (RIP) into bitmaps which may be stored in a memory. The stored bitmaps are used to control one or more demand printers and/or any other type of display device, such as a laser printer, a CRT, an LCD display or the like so that the device displays pages having fixed and variable information thereon. Alternatively, the master and variable page files may be premerged to create a plurality of combined files each representing a page to be reproduced with master and variable information. The combined files can be then sent to any type of printer or other display device, whether local or remote. Also, the combined files can be converted to a suitable format (e.g., Acrobat® PDF format) and transmitted to a remote location using a facsimile machine, e-mail, the [internet/worldwide] Internet/worldwide web or other transmission medium, if desired. Advantageously, the combined files may be transmitted over the Internet or any other networked or linked computers, such as a company intranet. In this case, as electronic page containing customized data can be sent over the Internet/intranet to a user based upon user demographic(s), a user search and/or any other identifiable user interest(s). For example, a customized [internet] <u>Internet</u> page could be sent with links to other web pages of interest to a user or a customized page may be sent in response to a user search for information on a particular subject. Alternatively, or in addition, ads could be generated and sent as a web page to one or more users based upon user demographics. As a further example, personnel information concerning a particular employee may be sent to the employee in response to a request for information.

The paragraph beginning on page 18, line 5 has been amended as follows:

Fig. 5 illustrates in diagrammatic generalized form the method of the present invention. For the purpose of explaining the present invention, as an example, it will be assumed that the demand print system 62a will be operated to produce a number of multiple-page books in the form of a brochure in duplex (or ["saddle-stich"] "saddle-stitch") format. Figs. 6a and 6b illustrate four pages P1-P4 printed on a single sheet of paper 100 and to be included in a brochure. The sheet of paper 100 includes a first side 100a with printed pages P1, P4 thereon and a second side 100b with pages P2, P3 printed thereon. (As will become evident hereinafter, the use of designations P1-P4 is not meant to imply that such pages will necessarily become pages 1, 2, 3 and 4 of the finished book.) In addition, pages P1-P4 are imposed such that the page P1 is placed on a right-hand portion 100a-r of the side 100a while the page P4 is placed on a left-hand portion 100a-l of the side 100a. Further, the page P2 is placed on a left-hand portion 100b-l of the side 100b while the page P3 is placed on a right-hand portion 100b-r of the side 100b. In this fashion, when the sheet of paper 100 is folded along a fold line 102 with the pages P1 and P4 on the outside, the pages P1-P4 appear in sequence. (The format shown in Figs. 6A and 6B is often referred to as "saddle stitch" imposition and is commonly used in magazines.) Because each book to be produced in this example includes multiple sheets of paper (or "forms"), each folded once along a fold line, the imposition process takes into account shingling effects but not bottling effects. It should be noted [both of] that such effects will generally have to be taken into account when more than two pages are to be printed on a single side of a sheet of paper and thereafter folded multiple times and assembled with other multiple-folded printed sheets of paper to create a book.

The paragraph beginning on page 25, line 23 has been amended as follows:

The database 108 is assembled by creating an ASCII file having a plurality of records wherein each record includes one or more fields entered into the database in tab-delimited format ([i.e], i.e. the fields are separated from one another in each record by tab keystrokes and the records are separated from one another by line returns) and wherein the fields are arranged under field names of a header. Each field may include text to be reproduced on a page or a name of an image file stored in the memory 53 and defining an image to be reproduced on a page.

The paragraph beginning on page 48, line 1 has been amended follows:

Alternatively, the master and variable data streams may be [overlayed] <u>overlaid</u> by first processing the master pages and then overlaying the variable pages onto the master pages.

The paragraph beginning on page 52, line 11 has been amended follows:

Alternatively, as described above, the master page files 122 and the variable page files 137, 138 may be provided separately to the print system 79 and [overlayed] overlaid.

The paragraph beginning on page 52, line 22 has been amended as follows:

For purposes of illustration, it is assumed that the RIP 82 interprets the widely used PostScript® PDL language. (PostScript® is a registered trademark of Adobe Systems, Inc.) The PostScript® language is fully described in the *PostScript® Language Reference Manual, Second Edition* (1990), from Adobe Systems, Inc., which is incorporated herein by reference. Certain imposition-on-the-fly procedures 454 according to the present invention are downloaded to the RIP 82. (The procedures 454 include, for example, ImposeJob, ImposeFile and various redefined PostScript® operators which are described in detail below). The imposition-on-the-fly

procedures 454 will be used by the RIP 82 to process the instruction set and the page descriptions contained in the merged PostScript® files 450 to efficiently transmit pages for rendering by the demand printer 84. (For ease in illustration, it is assumed the master and variable page files were premerged into merged file 450. It is understood, however, that the master and variable page files could also be [overlayed] overlaid.)

The paragraph beginning on page 81, line 33 has been amended as follows:

If Portrait is true, the orientation of the device must be converted from portrait to landscape. As illustrated in Fig. 26A, a portrait-orientated page 592 is represented in a [cartesian] Cartesian coordinate system with an origin at point Op. The portrait-orientated page 592 has a width PageX and a height PageY. The rendering area on the page 592 is bordered by a clipping path 594, which may be defined by the coordinates of its lower-left corner (llx, lly) and the coordinates of its upper-right corner (urx, ury).

The paragraph beginning on page 83, line 6 has been amended as follows:

If the block 590 determines that the variable Portrait is false, the orientation of the device must be converted from landscape to portrait. Referring also to Fig. 26B, a landscape-oriented page 608 is specified in a [cartesian] Cartesian coordinate system with an origin O<sub>L</sub>. The rendered area on the page 608 is bordered by a clipping path 610 defined by the coordinates of its lower-left and upper-right corners. The landscape-oriented page 608 is converted to a portrait-oriented page 612 by translating the origin O<sub>L</sub> in the positive y-direction and then rotating the coordinate system 90 degrees clockwise about the origin O<sub>L</sub>. This generates a portrait-oriented coordinate system with an origin O<sub>P</sub>.